DEP-3 SERVICE NOTES First Edition

SPECIFICATIONS

Input Level/Impedance +4dBm/47k Ω

-20dBm/47k Ω

Stereo Output Level/Impedance

+4dBm: (+18dBm max.)/600 Ω $-20 \mathrm{dBm}$ ($-5 \mathrm{dBm}$ max.)/ $600 \, \Omega$

A/D-D/A Conversion

16 bit Linear

Sampling Frequency

32kHz

Frequency Response

10Hz to 50kHz ⁺⁰ dB (Direct)

dB (Reverb) 30Hz to 12kHz

SN Ratio (IHF A at Rated Input)

82dB (Direct)

76dB (Reverb)

Dynamic Range

Over 94dB (Direct) Over 86dB (Reverb)

Total Harmonic Distortion

(at 1kHz, Rated Input)

Below 0.02% (Direct) Below 0.08% (Reverb)

Pre-delay Time

0 to 120ms (Reverb Mode)

0 to 120ms (Non-linear Mode)

Reverb Time

0.1 to 99s (Reverb Mode)

0.1 to 10s (Non-linear Mode)

HF Damp Control

x0.05 to x1.0

Gate Time 10 to 450ms

Delay Time

2 to 500ms

Reverb

Room: 1.0 to 15 (3 steps) Hall : 15 to 26 (3 steps)

Plate: A and B

Equalizer

Low Frequency 100Hz Boost/Cut +12dB

Mid Frequency 1kHz

Boost/Cut +12dB

Frequency 10kHz +12dB Boost/Cut

Power Consumption

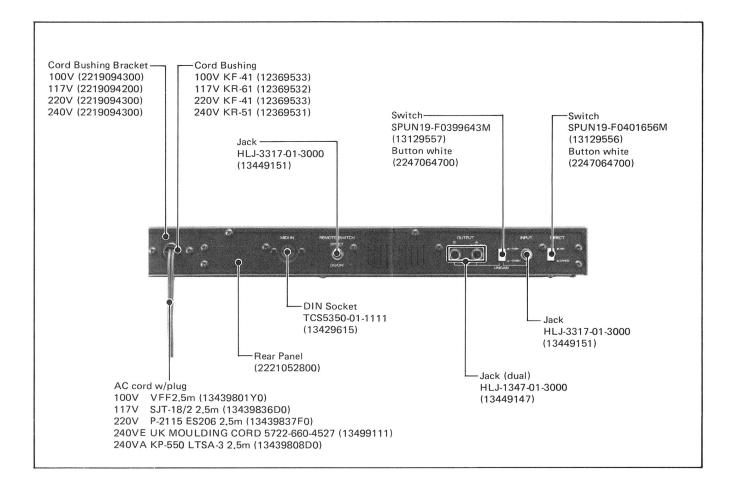
15W Dimensions

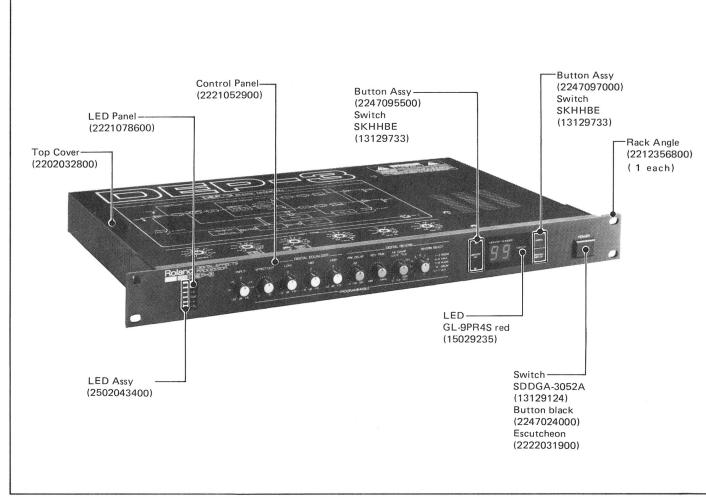
482 (W) x 47 (H) x 289 (D) mm

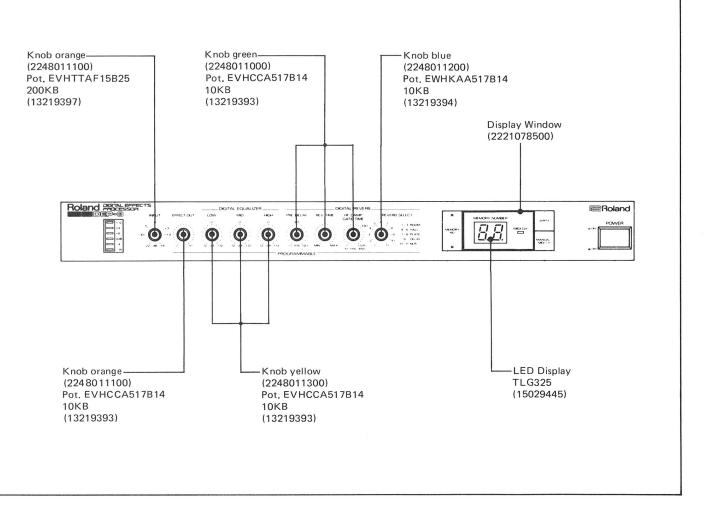
19 (W) x 1-7/8 (H) x 11-3/8 (D) in.

Weight

3.5 kg/7 lb. 12 oz.







PARTS LIST

CASING		POTENTIOM	ETER		AC CORD		
2202032800	Top Cover	13219397	EVHTTAF 15B25	POOKB	13439801Y0	VFF 2.5 m	100V
2202032900	Bottom Cover	13219393		10KB	1343983600	SJT-18/2 2.5 m	117V
2221052900	Control Panel	13219394	EWHKAA517B14	10KB	13439837F0	P-2115 ES-206 2.5 m	220V
2221052800	Rear Panel	13299115	H1051A015-22KB		13499111	UK MOULDING CORD 5722-660-4527	240VE(England)
2212356800	Rack Angle	13299197		trimmer	1343980800	KP-550 LTSA-3 2.5 m	240VA(Australian)
2221078500	Display Window	.5255 757		*	104000000	N 330 ETGN 6 2.3TH	240VA(AdStr dilait)
2221078600	LED Panel (Level Meter Window)	IC			DECICEOD		
2281056400	Front Chassis				RESISTOR		
2281056500	Power Transformer Chassis	15179256	µPD78C10G	CPU (external ROM version)	13819167	1/2w 56 ohm	
2281056700	Side Chassis left	15179828	MBM27C128-20	EP ROM			
2281056600	Side Chassis right	15179263	µPD78C14G	CPU (w/built-in ROM)	CAPACITOR		
2246049600	Heat Sink		Substituting 14	IG type to 10G makes EP ROM idle.	40500404		
2235031300	Foot(square mat)		1469イプを使用し	た場合、EP ROM は不用となる	13529104	DE7150F472MVA1 4700pF	line bypass
2222031900	Escutcheon				13619302N0	4.7uF/16V tantalium	
		15149121	M54522P	transistor array	13619908NO	10uF/6.3V tantalium	
KNOB, BUTT	ON	15159503	TC40H000P	(40H only) quad NAND gate	13659271	16x25 3300uF/16V	electro
		15159540	TC74HC373P	(74HC only) octal D-F/F	13659272	23x25 2200uF/35V	electro
2248011000	Knob 8mm dia green	15169517	74F04	(F type only) hex inverter			
2248011100	Knob 8mm dia orange	15179373	μPD446C-2L	S RAM	CRYSTAL		
2248011200	Knob 8mm dia blue	15179376	MB81416-10	D RAM	12389765	TQC-226A-6R 12MHz	
2248011300	Knob 8mm dia yellow	15189111J1	NJM-311D	Comparator	12389764	HC49U 40.96 MHz KD6	
2247024000	Button black POWER	15189129	TL072	OP amp	12303704	110490 40.90 IVINZ KD0	
2247064700	Button white UNIGAIN, DIRECT	15189132	NJM-4556D	OP amp	CONNECTOR		
2247095500	Button Assy MEMORY NUMBER	15189186	µPC4570C	OP amp	CONNECTOR		
2247097000	Button Assy WRITE, MANUAL/MIDI CH	15199147	M5F7815	voltage regulator	13459510	WE-2 wrapping terminal	2p
		15199148	M5F7915	voltage regulator	13459508	WE-3 wrapping terminal	3p
SWITCH		15199149	M5F7805	voltage regulator	13439123	MOLEX wafer assy 5045-07A	7p
13129124	SDDGA-3052A POWER	15219116	IR-2E02	LED driver	13439125	MOLEX wafer assy 5045-09A	9p
13129556	SPUN19-F0401656M DIRECT	15219176	NJU-7301D	analog switch	2341043400	9P Connector w/wiring	
13129557	SPUN19-F0399643M UNIGAIN	15219178	PCM-54HP-S	D/A converter			
	3/ 3/1/ 3/ 1 5555543/1/	152, 10 17 0	10101 3414 3	D/A CONVENCE			
	SKHHBE switch board	15229712	PCQAA	onto-isolator	MISCELLANE	OUS	
13129733	SKHHBE switch board	15229712 15229859	PC900 MB87126A-007	opto-isolator	MISCELLANE	OUS	
13129733		15229712 15229859	PC900 MB87126A-007	opto-isolator Roland custom IC (reverb)	MISCELLANE 12199552	OUS Fuse Holder UF0005-02	
		15229859	MB87126A-007			Fuse Holder UF0005-02	/. 220V
13129733 JACK, SOCKE 13449147			MB87126A-007		12199552	Fuse Holder UF0005-02	
13129733 JACK, SOCKE 13449147 13449151	HLJ-1347-01-3000 dual HLJ-3317-01-3000	15229859	MB87126A-007		12199552 12369533	Fuse Holder UF0005-02 Cord Bushing 1000	1
13129733 JACK, SOCKE 13449147 13449151 13429615	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single	15229859 TRANSISTOR	MB87126A-007		12199552 12369533 12369532	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 1170 Cord Bushing 2400	1
13129733 JACK, SOCKE 13449147 13449151	HLJ-1347-01-3000 dual HLJ-3317-01-3000	15229859 TRANSISTOR 15119125	MB87126A-007 R 2SA-1115-28-F		12199552 12369533 12369532 12369531	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 1170 Cord Bushing 2400	/ / /. 220V. 240V
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P	15229859 TRANSISTOR 15119125 15129130	MB87126A-007 R 2SA-1115-28-F 2SC-1583F		12199552 12369533 12369532 12369531 2219094300 2219094200 12569311	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170	/ / /. 220V. 240V
13129733 JACK, SOCKE 13449147 13449151 13429615	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P	15229859 TRANSISTOR 15119125 15129130 15129136	MB87126A-007 2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F		12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L	/ / /, 220V, 240V
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAM	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P	15229859 TRANSISTOR 15119125 15129130 15129136 15129137	MB87126A-007 2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F	Roland custom IC (reverb)	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 6	/ / /, 220V, 240V / .ithium Battery
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V	15229859 TRANSISTOR 15119125 15129130 15129136 15129137	MB87126A-007 2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F	Roland custom IC (reverb)	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 G Bracket 1170 Switch Board Bracket	/ /, /, 220V, 240V / Lithium Battery extension shaft.coupling
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V	15229859 TRANSISTOR 15119125 15129130 15129136 15129137 15129171 DIODE	MB87126A-007 2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT	Roland custom IC (reverb)	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-0200 L EWK81A037 Bracket 5 Switch Board Bracket LED Board Bracket	/ /, /, 220V, 240V / Lithium Battery extension shaft.coupling
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0 2245047400	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V	15229859 TRANSISTOR 15119125 15129130 15129136 15129137 15129171 DIODE 15019124	MB87126A-007 2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM1-UB4	Roland custom IC (reverb)	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 Gracket Switch Board Bracket LED Board Bracket Power Switch Bracket	// //, 220V, 240V // Lithium Battery extension shaft.coupling main board
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V	15229859 TRANSISTOR 15119125 15129130 15129137 15129171 DIODE 15019124 15019125	2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM 1-UB4 1SS-133	Roland custom IC (reverb)	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100 12169334	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 G Bracket Switch Board Bracket LED Board Bracket LED-0500 L	/ /, /, 220V, 240V / Lithium Battery extension shaft.coupling
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 2245047300 2245047400 22450475A0	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V	15229859 TRANSISTOR 15119125 15129130 15129137 15129171 DIODE 15019124 15019125 15019251	MB87126A-007 2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM1-UB4 1SS-133 1N-4007	Roland custom IC (reverb)	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100 12169334 2226023601	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 G Bracket Switch Board Bracket LED Board Bracket LED-0500 L	// //, 220V, 240V // Lithium Battery extension shaft.coupling main board
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0 2245047400	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V	15229859 TRANSISTOR 15119125 15129130 15129137 15129171 DIODE 15019124 15019125 15019251 15019270	2SA-1115-28-F 2SC-1583F 2SC-2603-28-F DTC-114ES SPT 1S-188FM 1-U84 1SS-133 1N-4007 10DF 1	Roland custom IC (reverb) (w/built-in bias resistors)	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100 12169334 2226023601 2226023500	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 Gracket Switch Board Bracket LED Board Bracket LED-0500 Cushion	// //, 220V, 240V // Lithium Battery extension shaft coupling main board LED spacer MIDICH
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 2245047300 2245047400 22450475A0	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V	15229859 TRANSISTOR 15119125 15129130 15129136 15129137 15129171 DIODE 15019124 15019125 15019251 15019270 15019275	2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM1-UB4 1SS-133 1N-4007 100F1 3B4B41	Roland custom IC (reverb) (w/built-in bias resistors) bridge rectifier	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100 12169334 2226023601 2226023500 2225024500	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 Bracket Switch Board Bracket LED Board Bracket LED Board Bracket LED-0500 L Cushion	
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAM 22450472N0 22450473C0 22450474D0 22450475A0 COIL	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-11111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V 240V	15229859 TRANSISTOR 15119125 15129130 15129137 15129171 DIODE 15019124 15019125 15019251 15019270	2SA-1115-28-F 2SC-1583F 2SC-2603-28-F DTC-114ES SPT 1S-188FM 1-U84 1SS-133 1N-4007 10DF 1	Roland custom IC (reverb) (w/built-in bias resistors)	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100 12169334 2226023601 2226023500 2225024500	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-0200 L EWK81A037 Bracket Switch Board Bracket LED Board Bracket Po wer Switch Bracket LED-0500 L Cushion Cushion Shield plate	27. 220V. 240V 27. 220V. 240V 28. Ithium Battery 29. Extension shaft.coupling main board 29. ED spacer MIDI CH display -PCB display window - display
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0 2245047400 22450475A0 COIL 12449229M1	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-11111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V 240V FK0B160MH15	15229859 TRANSISTOR 15119125 15129130 15129136 15129137 15129171 DIODE 15019124 15019125 15019251 15019270 15019275 15019404	2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM1-UB4 1SS-133 1N-4007 100F1 3B4B41	Roland custom IC (reverb) (w/built-in bias resistors) bridge rectifier	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100 12169334 2226023601 2226023500 2225024500 2225024600 2214020700	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-0200 L EWK81A037 Bracket Switch Board Bracket LED Board Bracket LED Board Bracket LED-0500 L Cushion Cushion Shield plate Sinon	// //, 220V, 240V // Lithium Battery extension shaft, coupling main board LED spacer MIDICH display -PCB display window - display main board
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0 2245047400 22450475A0 COIL 12449229M1 12449284	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V 240V FK08160MH15 LPF 12KHz GM-606 BL02RN2-R62 inductor	15229859 TRANSISTOR 15119125 15129130 15129136 15129137 15129171 DIODE 15019124 15019125 15019251 15019270 15019275	2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM1-UB4 1SS-133 1N-4007 100F1 3B4B41	Roland custom IC (reverb) (w/built-in bias resistors) bridge rectifier	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 22190934 2226023601 2226023601 2226023500 2225024600 2214020700 2215040100	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 Bracket Switch Board Bracket LED Board Bracket LED Board Bracket LED-0500 Cushion Cushion Shield plate Extension Shaft Sieeve	27. 220V. 240V 27. 220V. 240V 28. 240V 29. 240V
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0 2245047400 22450475A0 COIL 12449229M1 12449284 12399501M1	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V 240V FK08160MH15 LPF 12KHz GM-606 BL02RN2-R62 inductor DSS310-550223S EMI Filter	15229859 TRANSISTOR 15119125 15129130 15129136 15129137 15129171 DIODE 15019124 15019125 15019251 15019270 15019275 15019404	2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM 1-UB4 1SS-133 1N-4007 10DF 1 3B4B41 MTZ6, 2B	Roland custom IC (reverb) (w/built-in bias resistors) bridge rectifier zener	12199552 12369533 12369531 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 22190986100 12169334 2226023601 2226023500 2225024500 2214020700 2215040100 2215040200	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 Bracket Switch Board Bracket LED Board Bracket LED Board Bracket LED-0500 Cushion Cushion Shield plate Extension Shaft Sieeve	27. 220V. 240V 27. 220V. 240V 28. A start coupling main board DED spacer MIDICH display window - display main board main board main board main board main board cower
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0 2245047400 22450475A0 COIL 12449229M1 12449284 12399501M1 13529105M1	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V 240V FK08160MH15 LPF 12KHz GM-606 BL02RN2-R62 inductor	15229859 TRANSISTOR 15119125 15129130 15129137 15129171 DIODE 15019124 15019125 15019251 15019270 15019275 15019404 LED	2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM1-UB4 1SS-133 1N-4007 100F1 3B4B41	Roland custom IC (reverb) (w/built-in bias resistors) bridge rectifier zener dual 7-seg	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100 12169334 2226023601 2226023500 2225024500 2225024600 2214020700 2215040100 2215040200 2215040900	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 G Bracket Switch Board Bracket LED Board Bracket LED-0500 L Cushion Cushion Shield plate Extension Shaft Sieeve Coupiling Extension Shaft	2. 220V, 240V 2. 220V, 240V 2. 2thium Battery extension shaft coupling main board .ED spacer MIDI CH display -PCB display window - display main board main board main board extension board e
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0 2245047400 22450475A0 COIL 12449229M1 12449284 12399501M1 13529105M1	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V 240V FK08160MH15 LPF 12KHz GM-606 BL02RN2-R62 inductor DSS310-550223S EMI Filter	15229859 TRANSISTOR 15119125 15129130 15129136 15129137 15129171 DIODE 15019124 15019125 15019251 15019270 15019275 15019404 LED 15029445	2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM1-UB4 1SS-133 1N-4007 100F1 3B4B41 MTZ6.2B	Roland custom IC (reverb) (w/built-in bias resistors) bridge rectifier zener	12199552 12369533 12369531 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 22190986100 12169334 2226023601 2226023500 2225024500 2214020700 2215040100 2215040200	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 G Bracket Switch Board Bracket LED Board Bracket LED-0500 L Cushion Cushion Shield plate Extension Shaft Sieeve Coupiling Extension Shaft	27. 220V. 240V 27. 220V. 240V 28. A coupling stands and board DED spacer MIDICH display window - display main board main board main board sower bower
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13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0 22450475A0 COIL 12449229M1 12449229M1 12449284 12399501M1 13529120M1 PCB 7413840000 7413844000 7413845100	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V 240V FK0B160MH15 LPF 12KHz GM-606 BL02RN2-R62 inductor DSS310-550223S EMI Filter BNP002-02 EMI Filter Main Board (pcb 2292040300) Switch Board (pcb 2292040400) Power Supply Board 100V (pcb 2292045700)	15229859 TRANSISTOR 15119125 15129130 15129136 15129137 15129171 DIODE 15019124 15019125 15019251 15019270 15019275 15019404 LED 15029445 15029235 2502043400	2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM 1-UB4 1SS-133 1N-4007 10DF 1 3B4B41 MTZ6. 2B	Roland custom IC (reverb) (w/built-in bias resistors) bridge rectifier zener dual 7-seg red	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100 12169334 2226023601 2226023500 2225024500 2225024600 2214020700 2215040100 2215040200 2215040900	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 G Bracket Switch Board Bracket LED Board Bracket LED-0500 L Cushion Cushion Shield plate Extension Shaft Sieeve Coupiling Extension Shaft	2. 220V, 240V 2. 220V, 240V 2. 2thium Battery extension shaft coupling main board .ED spacer MIDI CH display -PCB display window - display main board main board main board extension board e
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0 22450475A0 COIL 12449229M1 12449229M1 12449284 12399501M1 13529120M1 PCB 7413840000 7413845100 7413845300	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-11111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V 240V FK0B160MH15 LPF 12KHz GM-606 BL02RN2-R62 inductor DSS310-550223S EMI Filter BNP002-02 EMI Filter Main Board (pcb 2292040300) Switch Board (pcb 2292040300) Power Supply Board 100V (pcb 2292045700) Power Supply Board 117V (pcb 2292045700)	TRANSISTOR 15119125 15129130 15129136 15129137 15129171 DIODE 15019124 15019125 15019251 15019270 15019275 15019404 LED 15029445 15029235 2502043400 FUSE	2SA-1115-28-F 2SC-1583F 2SC-2878-A 2SC-2603-28-F DTC-114ES SPT 1S-188FM 1-U84 1SS-133 1N-4007 10DF 1 3B4B41 MTZ6. 2B TLG325 GL-9PR4S LED ASSY	Roland custom IC (reverb) (w/built-in bias resistors) bridge rectifier zener dual 7-seg red level meter	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100 12169334 2226023601 2226023500 2225024500 2225024600 2214020700 2215040100 2215040200 2215040900	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 G Bracket Switch Board Bracket LED Board Bracket LED-0500 L Cushion Cushion Shield plate Extension Shaft Sieeve Coupiling Extension Shaft	2. 220V, 240V 2. 220V, 240V 2. 2thium Battery extension shaft coupling main board .ED spacer MIDI CH display -PCB display window - display main board main board main board extension board e
13129733 JACK, SOCKE 13449147 13449151 13429615 13429531 POWER TRAN 22450472N0 22450473C0 22450475A0 COIL 12449229M1 12449229M1 12449284 12399501M1 13529120M1 PCB 7413840000 7413844000 7413845100	HLJ-1347-01-3000 dual HLJ-3317-01-3000 DIN Socket TCS5350-01-1111 single DICF-T28AS-E IC Socket 28P NSFORMER 100V 117V 220V 240V FK0B160MH15 LPF 12KHz GM-606 BL02RN2-R62 inductor DSS310-550223S EMI Filter BNP002-02 EMI Filter Main Board (pcb 2292040300) Switch Board (pcb 2292040400) Power Supply Board 100V (pcb 2292045700)	15229859 TRANSISTOR 15119125 15129130 15129136 15129137 15129171 DIODE 15019124 15019125 15019251 15019270 15019275 15019404 LED 15029445 15029235 2502043400 FUSE 12559532	2SA-1115-28-F 2SC-1583F 2SC-2603-28-F DTC-114ES SPT 1S-188FM 1-UB4 1SS-133 1N-4007 10DF 1 3B4B41 MTZ6. 2B TLG325 GL-9PR4S LED ASSY	Roland custom IC (reverb) (w/built-in bias resistors) bridge rectifier zener dual 7-seg red level meter	12199552 12369533 12369532 12369531 2219094300 2219094200 12569311 12149323 2219075700 2219092300 2219092200 2219086100 12169334 2226023601 2226023500 2225024500 2225024600 2214020700 2215040100 2215040200 2215040900	Fuse Holder UF0005-02 Cord Bushing 1000 Cord Bushing 2400 Cord Bushing Bracket 1000 Cord Bushing Bracket 1170 M2C-C200 L EWK81A037 G Bracket Switch Board Bracket LED Board Bracket LED-0500 L Cushion Cushion Shield plate Extension Shaft Sieeve Coupiling Extension Shaft	2. 220V, 240V 2. 220V, 240V 2. 2thium Battery extension shaft coupling main board .ED spacer MIDI CH display -PCB display window - display main board main board main board extension board e

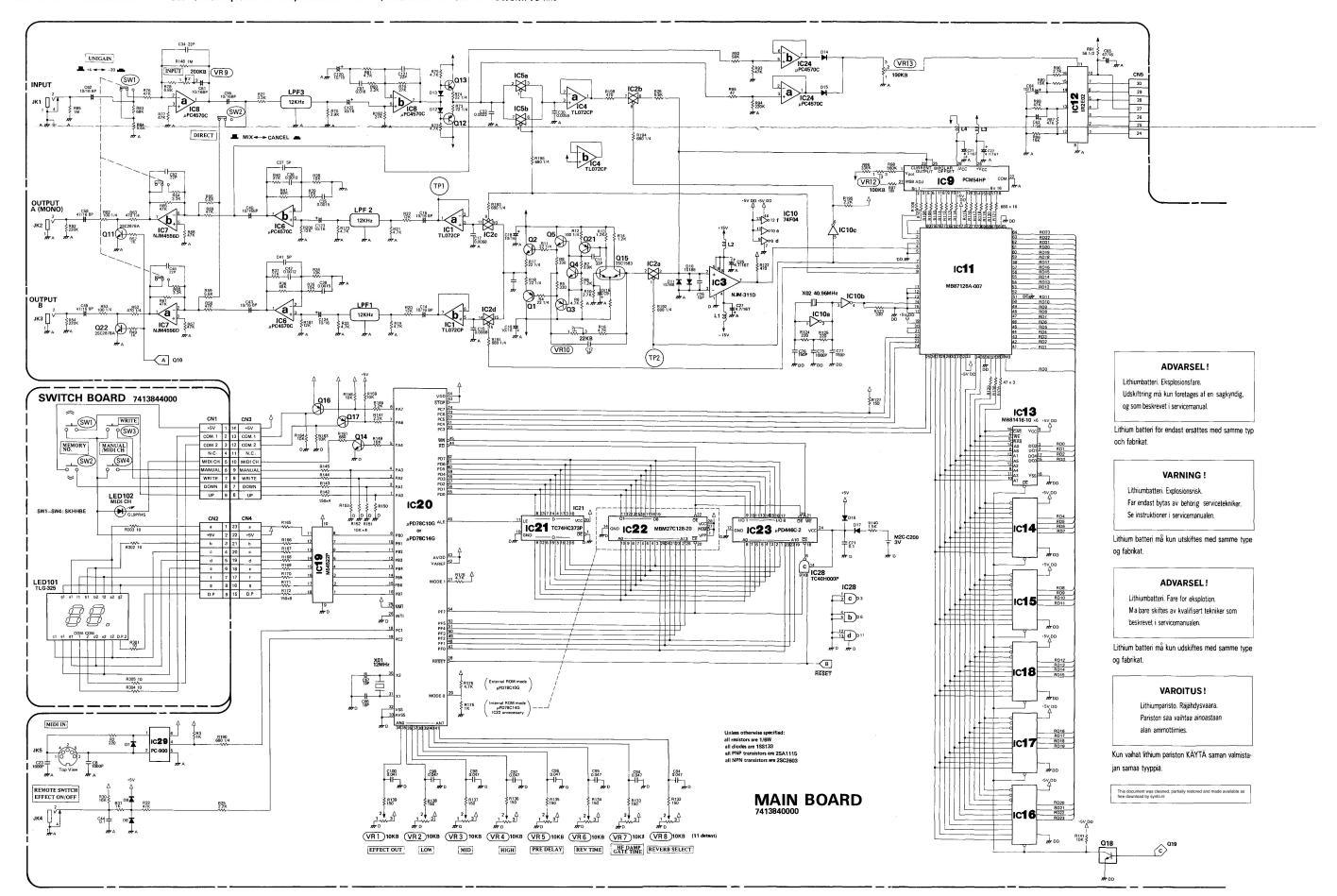
EXPLODED VIEW 分解図

1 Control Panel 2 LED Panel (Level Meter Window) 3 Escutcheon 4 Display Window 5 Cushion 6 Button Assy blk 7 Button Assy blk 8 Switch Bracket 9 LED Display TLG325 10 Switch Board 11 LED Board Bracket 12 LED Assy (Level Meter) 13 Knob 8mm dia. green orange blue yellow	コントロールパネル LEDパネル エスカッション 表示器パイル ケッション ボタン完成品 ボタン完成品 スイッチ・ボホルダ LED表手を LEDボードホルダ レベルLED完成 関 でで 緑 橙 青 黄	(2221052900) (2221078600) (222031900) (2221078500) (2226023500) (2247095500) (224709500) (2219092300) (15029445) (7413844000) (2219092200) (2502043400) (2248011000) (2248011200) (2248011300)	14- 15- 16- Extension Shaft, Coupling EWK8 17- Extension Shaft 18- Front Chassis 19- Button black 20- Sleeve 21- Extension Shaft 22- Coupling 23- Main Board 24- Power Transformer 100V 117V 220V 240V 25- Side Chassis (R) 26- Power Switch Bracket 27- Power Supply Board 28- Power Transformer Chassis 29- Heat Sink	#1A037 延長シャット,カップリング EWK81A037 VRスリーブ フロントシャーシ ボタン黒 スリーブ アーム スリーブ メイン基板 電源トランス サイドシャーシ(R) パワースイッチホルダ 電源基板 トランスシャーシ ヒートシンク	(12149323) (2215040900) (2281056400) (2247024000) (2215040100) (2215040200) (2215040200) (7413840000) (22450472N0) (22450473C0) (22450475A0) (22450475A0) (2281056600) (2219086100) (7413855000) (2281056500) (2281056500) (2281056500) (2246049600)	30 Side Chassis (L) 31 Rear Panel 32 Cord Bushing Bracket 100/3 117V 33 Cord Bushing 100/220V 117V 240V 34 AC Cord 100V 117V 220V 240VE 240VA 35 Button white 36 Bottom Cover 37 Rubber Foot 38 Top Cover 39 Rack Angle 40 Boss nut #215-575	サイドシャーシ(L) (2281056700) リアバネル (2221052800) 220/240V コードブッシュホルダ100/220/240V (2219094300) 117V (2219094200) コードブッシュ100/220V (12369533) 117V (12369532) 240V (12369531) ACコード100V (13439801Y0) 117V (13439836100) 220V (13439837F0) 240VE (13499111) 240VA (1343980800) ボタン白 ボトムカバー (2202032900) ゴム足 (2235031300) トップカバー (2202032800) ラックアングル (2212356800) ボスナット (2215057500)
4 x 10mm p W/internal to	an ST ooth washer	binding BC ST at tooth washer 3 x 4mm binding BC w/internal tooth washer vable Screws Front Panel 1. 5 2 2. 6 4 4 x 10mm pan ST w/internal tooth washer	3 x 8mm binding BC ST w/internal tooth washer 338 3 x 8mm binding BC ST		40	35 36 37 37 39 30 30 31 31 32 32 32 32 32 32 33 4 x 10mm pan w/internal tooth washer ST	33 33 226 225
Fe,	6mm countersunk Cm, ST 2 3 x 6mm countersum Fe, Cm, ST m binding BC ST nal tooth washer	ink	3 7 Unless otherwall screws are	21)	rnal tooth washer 37	36	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 41 42 43 44 45 46 47

CIRCUIT DIAGRAM

See P.7 for replaced LPFs 1, 2 and 3. LPF1,2および3についてはP.7の変更案内参照。



4

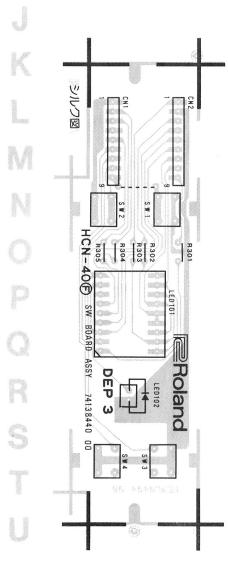
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

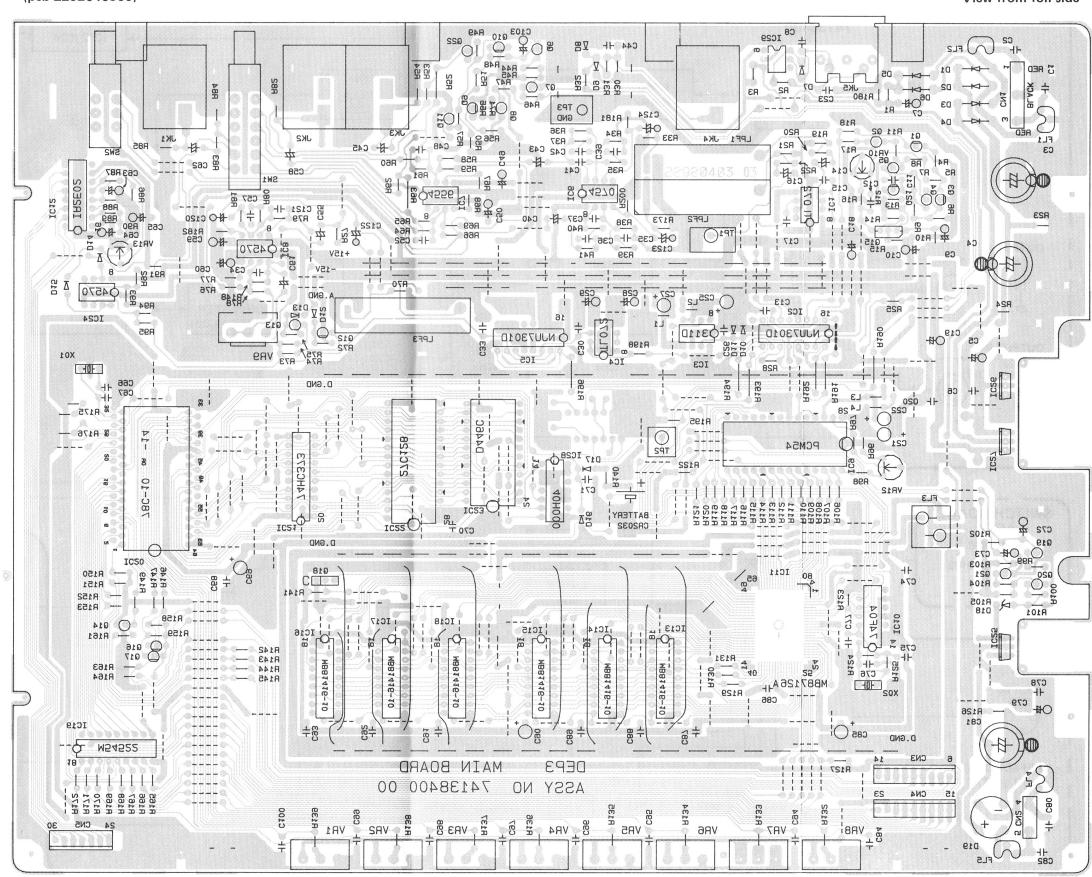
MAIN BOARD

7413840000 (pcb 2292040300)

View from foil side

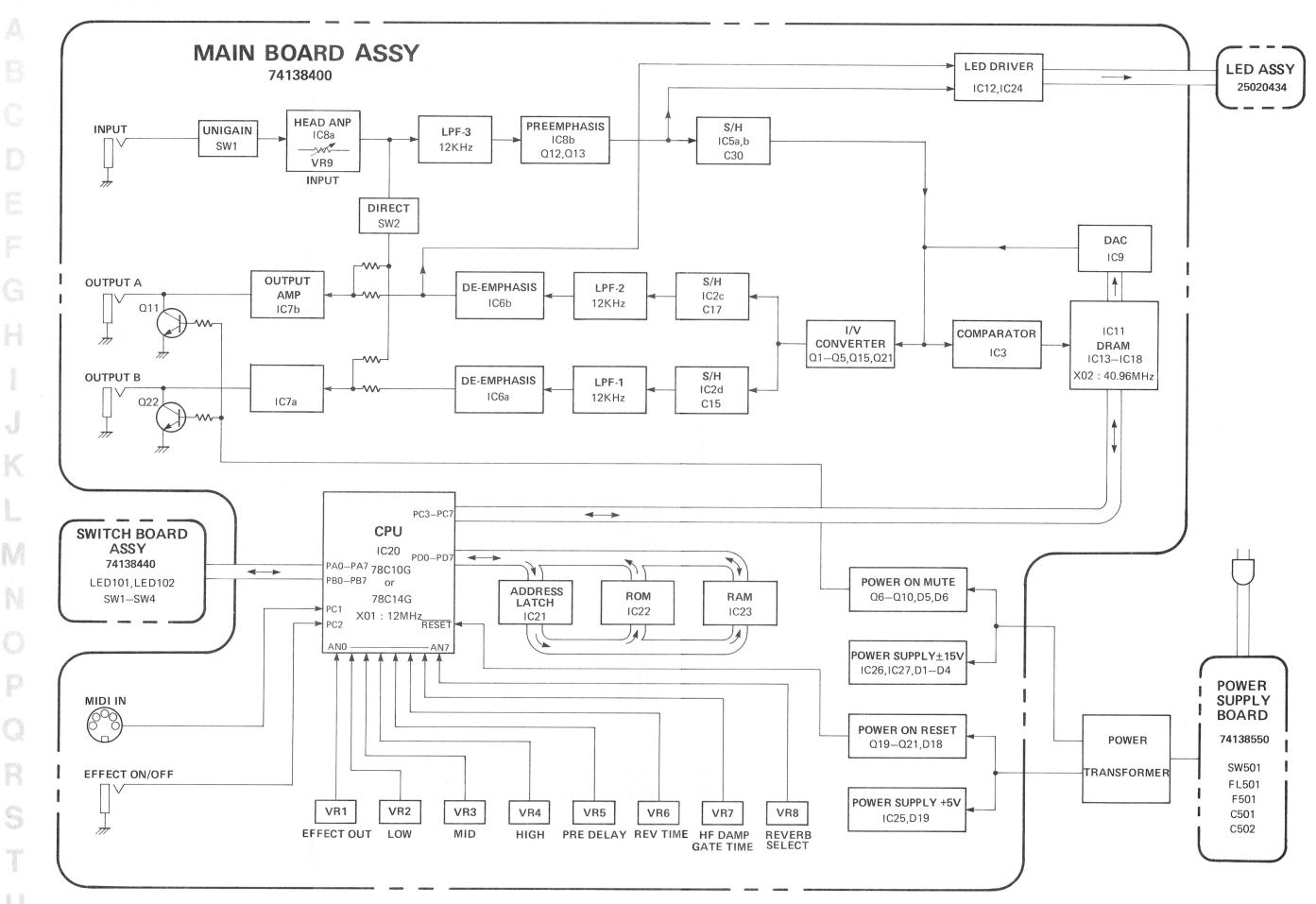






1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

BLOCK DIAGRAM



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

CIRCUIT DIAGRAM ACTIVE FILTER BOARD (pcb 2292048500) LED ASSY See CHANGE INFORMATION, 変更案内参照 2502043400 2502603 2502603 5.6K IC1 TL072CP IC6 μPC4570C IC24 μPC4570C REGULATOR BOARD (pcb 2292048400) See CHANGE INFORMATION, 変更案内参照 2SB596 IC2 NJU73010 10/16 # M5236L 220 123 ıc**26** 100V CEE T630mA 12559532 117V SD6 630mA 12559413 220V CEE T315mA 12559509 240V CEE T315mA IC27 **POWER SUPPLY BOARD** + C80 لعفقفا ത്ത **MAIN BOARD**

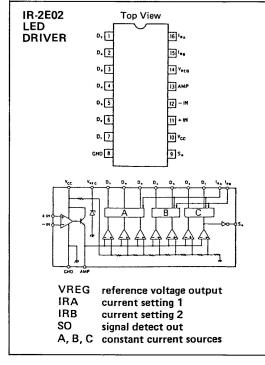
CHANGE INFORMATION 変更案内

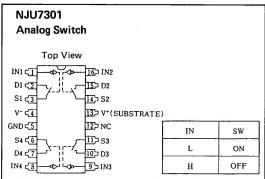
To improve circuit performance the 回路改善のため下記基板をメインボード following PCBs are piggybacked on the の附属基板として搭載(工場生産品のみ) Main Board as attaching components 実施製番は本サービスノート発行時点で (factory production only). Effective SN is not fixed yet as date of this issue.

は未定。

Active Filter Board Replaces LPFs 1, 2 and 3, respectively. LPF1,2および3の置換

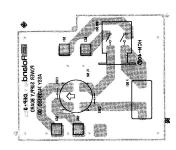
Reulator Board Replaces IC26, regulator. レギュレータIC26の置換





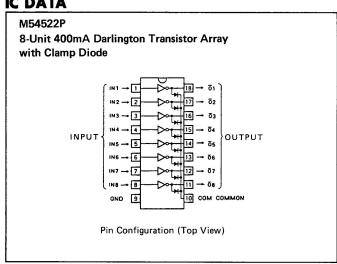
POWER SUPPLY BOARD

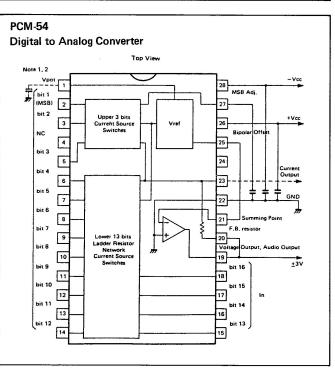
7413845100 100V 7413845300 117V 7413845400 220/240V

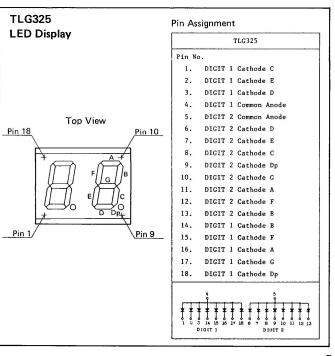


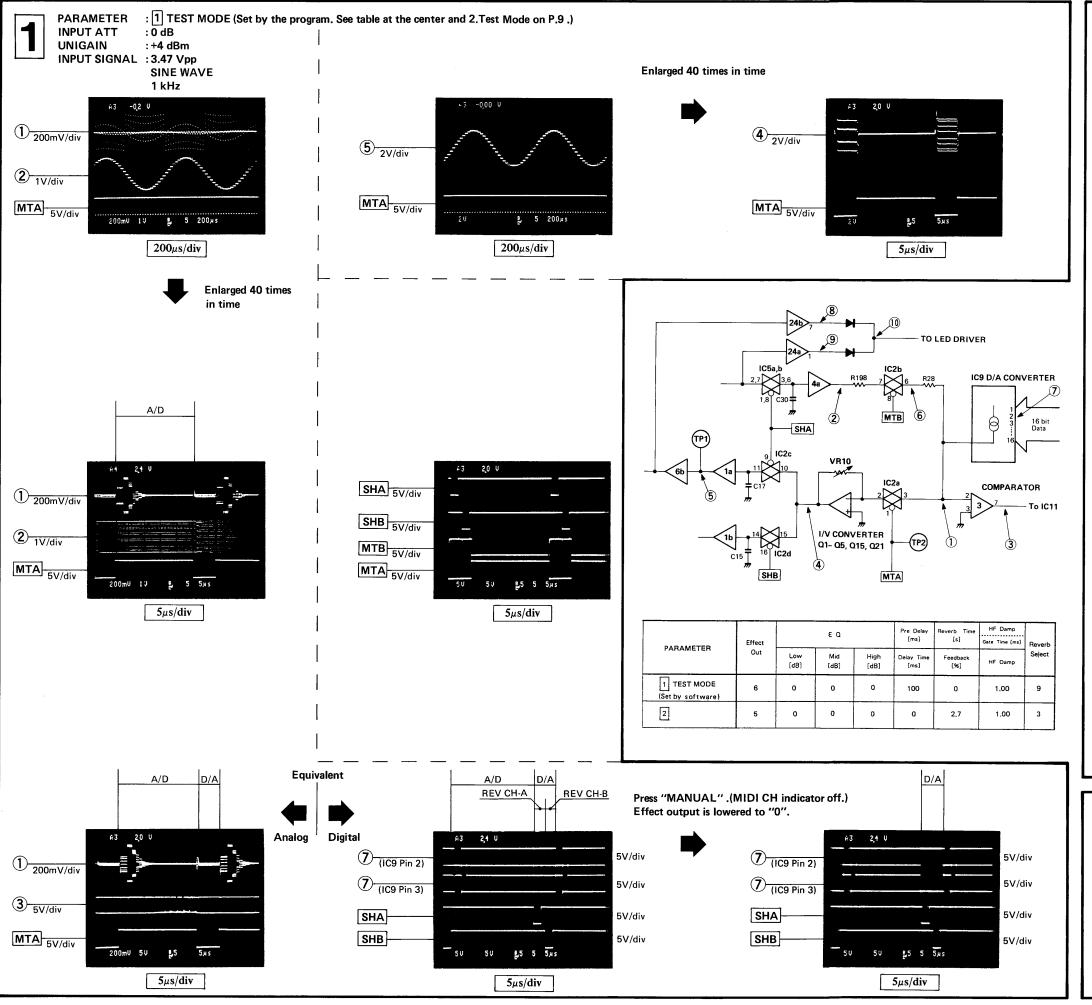
View from foil side

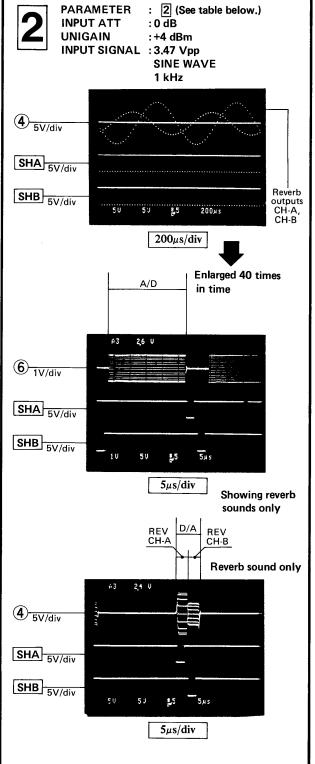
IC DATA

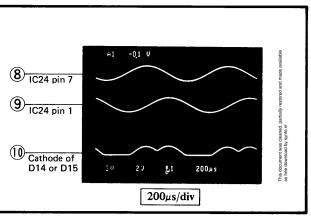












CHECKING AND ADJUSTING

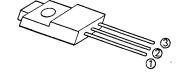
1. Voltages (Main Board)

1-1. Battery

With power off verify more than +3V on D17 anode with respect to the digital ground (D).

1-2. DC Supplies

With power on verify the following voltages with respect to the respective ground.



IC25 pin 3 +4.8 to +5.2V IC26 pin 3 +14.4 to +15.6V IC27 pin 3 -15.6 to -14.4V

2. Test Mode

The following checks and adjustments can be carried out in the test mode provided.

2-1. Entering Test Mode

While pressing MANUAL, turn the DEP-3 on. The display will show the test mode sign as shown below.

2. テスト・モード

点検および調整

1. 電圧(メインボード)

3 V以上であること。

1-1. バッテリ

1-2. DC電源

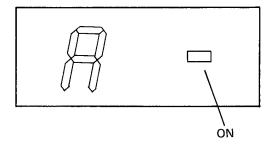
以下の調整、点検はテストモードに入ってから行なっ て下さい。

2-1. テストモードへの入り方

MANUAL ボタンを押しながら電源を入れる。 下 図のような表示が出る。

電源オフの状態で、D17カソード電圧を測定す

電源をオンにする。下記電源電圧を確認する。



NOTES

•EFFECT

Default setting is on in the test mode: MIDI CH Indicator will serve as EFFECT ON indicator. Effect is

toggled by MANUAL.

•iNPUT ATT Panel controls (VRs) other than INPUT (VR9) are defeated during the test mode.

3. DAC Level, Level LEDs (Main Board)

Setup (DEP-3)

DIRECT MIX

UNIGAIN +4dBm

(Audio Generator) +4dBm, 1kHz, sine into INPUT

(Meter)

Millivoltmeter into OUTPUT A

3-1. Press MANUAL, verify that MIDI CH indicator is

Adjust INPUT ATT for +4dBm reading on the millivoltmeter.

注

・エフェクト

テストモードにおける初期設定は"オン"の状態で、 MIDI CH インジケータが点灯します。 MANUAL ボタンによりオン/オフの切換が出来ます。

• INPUT ATT

INPUT 以外のパネル上のボリュウムはテストモード 中無効です。

3. D/Aレベル、レベルLED(メインボード)

設定

(DEP-3)

DIRECT MIX

UNIGAIN $\cdots \cdots + 4 \text{ dBm}$

(低周波発振器)

+4 dBm, 1 KHz, $\forall 1$

…… INPUT ジャックへ

(ミリボルトメータ) OUTPUT ジャックのAへ

3-1. MANUALを押す。MIDI CHインジケータが消 灯する。

> ミリボルトメータ の指示が+4dBmになる様 INPUT アッテネータを調整する。

3-2. Set DIRECT to CANCEL.

Press MANUAL; verify that MIDI CH indicator is

Adjust VR10 for +4dBm reading.

- 3-3. Shift millivoltmeter to OUTPUT B; verify +4dBm reading.
- 3-4. Set DIRECT to MIX. Press MANUAL; MIDI CH indicator will go off. Adjust VR13 so that level LEDs -14dBm to 0dBm
- 3-5. Set UNIGAIN to -20dBm; verify the all LEDs up to +12dBm are lit.
- 3-6. Lower AG output level to -20dBm; verify that LEDs +6dBm to +12dBm are off.

4. Dynamic Range (Main Board)

Setup

(DEP-3)

DIRECT CANCEL

UNIGAIN +4dBm

(Audio Generator) -40dBm, 1kHz, sine into IN-

PUT

Into OUTPUT A through IHF-A (Distortion meter) filter

4-1. Adjust VR-12 for less than 5% distortion factor.

3-2. DIRECT スイッチをCANCEL側に設定する。 MANUALを押す。MIDI CH インジケータが 点灯する。

> ミリボルトメータの指示が+4dBになる様VR10 を調整する。

- 3-3. ミリボルトメータをOUTPUT ジャックのBへ接 続する。指示が+4dBmであることを確認。
- 3-4. DIRECT スイッチをMIX側に設定する。 MANUALを押す。MIDI CH が消灯する。 -14dBmから0dBmまでのLEDが点灯する 様VR13を調整する。
- 3-5. UNIGAIN を-20 dBm側に設定する。+12 dBm迄の全てのLEDが点灯することを確認。
- 3-6. 発振器の出力を-20dBmに下げる。+6dBmから+12dBm迄のLED が消灯することを確 認。

4. ダイナミックレンジ(メインボード)

設定

(DEP-3) DIRECT CANCEL

UNIGAIN $\cdots \cdots + 4$ d B m

(低周波発振器) -40dBm, 1KHz, $\#4 \times$

··· INPUTジャックへ

(歪率計) JIS-Aフィルタを介して

OUTPUT Aジャックへ

4-1. 歪率が最少(5%以下)になる様VR12を調整 する。

ERROR MESSAGES

Read Error Messages as follows:

initialization

E2

E3

CPU will display an error message should it detect a malfunction during play mode.

Failure in writing into or reading from RAM,

Failure in initializing digital signal processor IC11

Failure in transferring data to IC11 during the

Failure in transferring data to IC11

Exp.





エラーメッセージ

通常のプレイモード中に異常が発生した場合、症状によっ てはエラーメッセージが表示されます。

表示例

メッセージの内容は次の通りです。

E1 RAM(IC23)に対しリード又はライト不成功

E2 ディジタル・シグナルプロセッサ(IC11)の初期 設定不成功

E3 ディジタル・シグナルプロセッサへデータの転送が 出来ない(初期設定時)

E4 ディジタル・ジグナルプロセッサへデータの転送が 出来ない

MODEL DEP-3 MIDI Implementation Chart

Date: Jan. 05. 1987 Version: 1.0

	Function	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	×	1 - 16 1 - 16	memorized
Mode	Default Messages Altered	× × *******	1,3 OMNION/OFF	memorized
Note Number	True voice	× ******	×	
Velocity	Note ON Note OFF	×	×	
After Touch	Key's Ch's	× ×	×	
Pitch Ben	der	×	×	
		×	×	
Control				
Change				
Prog Change	True #	× ******	O - 127 ** 0 - 98	
System Ex	clusive	×	0	Parameters
System Common	Song Pos Song Sel Tune	× × ×	× × ×	
System Real Time	Clock	×	×	
Mes-	Local ON/OFF All Notes OFF Active Sense Reset	× × ×	× × ×	
Notes		** n : Program Change When 0 ≤ n ≤ 98, it corresponds with When n ≥ 99,		

Mode 1 : OMNI ON. POLY

Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO Mode 4 : OMNI OFF MONO

O: Yes

X : No

RECOGNIZED RECEIVE DATA

Status	Second	Third	Description
1100 nnnn	Оррр рррр		Program Change pppppppp = 0 - 127
1011 nnnn 1011 nnnn	0111 1100 0111 1101	0000 0000 0000 0000	OMNI OFF OMNI ON
1111 0000		1111 0111	System exclusive

RECOGNIZED EXCLUSIVE MESSAGE 2.

Exclusive message is based on following structure

Byte		Description	
e f g j k l m	1111 0000 0100 0001 0000 nnnn 0001 0010 0001 0010 0aaa aaaa 0bbb bbbb 0ccc cccc 0ddd dddd 0eee eeee 0fff ffff 0ggg gggg 0hhh hhhh	Exclusive status Roland ID # Device-ID # = MIDI basic channel where nnnn + l = channel # Model-ID # (DEP-3) Command-ID # (DTl) Address MSB Address LSB Data Data Data Data Data Data Data Dat	*2-1
•	0jjj jjjj 0kkk kkkk 1111 0111	Data Data Checksum End of System Exclusive	*2-2

Notes :

*2-1 If aaaaaaa - bbbbbbb doesn't indicate the top address of the parameter, the message will be ignored.

*2-2 Summed value of the all bytes between Command-ID and EOX must be 00H (7 bits). It is not include Command-ID and EOX.

Address mapping of parameters

Address of parameter

```
0000 : Temporary parameter
    0 : 00aa aaaa : EFFECT OUTPUT LEVEL
1 : 00bb bbbb : BOOST/CUT OF LOW FILTER
        OOCC CCCC | BOOST/CUT OF MIDDLE FILTER
   3 : 00dd dddd : BOOST/CUT OF HIGH FILTER
   4 : 00ee eeee : PRE DELAY or DELAY TIME
5 : 00ff ffff : REVERB TIME or FEEDBACK OF DELAY
   6 : 00gg gggg : HF DAMP or GATE TIME
7 : 00hh hhhh : REVERB SELECT
```

0080 ; Memory number 1

```
: 00aa aaaa : EFFECT OUTPUT LEVEL
            : 00bb bbbb : BOOST/CUT OF LOW FILTER
          : 00cc cccc : BOOST/CUT OF MIDDLE FILTER : 00dd dddd : BOOST/CUT OF HIGH FILTER
          Odd ddd . Boosiycol of high filth

1 Odee eeee : PRE DELAY or DELAY TIME

1 Ooff ffff : REVERB TIME or FEEDBACK OF DELAY

2 Oogg gggg : HF DAMP or GATE TIME

3 Oohh hhhh : REVERB SELECT
0100 : Memory number 2
0180
           : Memory number 3
```

3180 : Memory number 99

Notes :

The actual values obtained on the DEP-3 differ from the values sent with MIDI (± 0 - ± 63). From the Roland distributer in your country, you can attain the table that shows how the MIDI values correspond to the actual values on the DEP-3.